



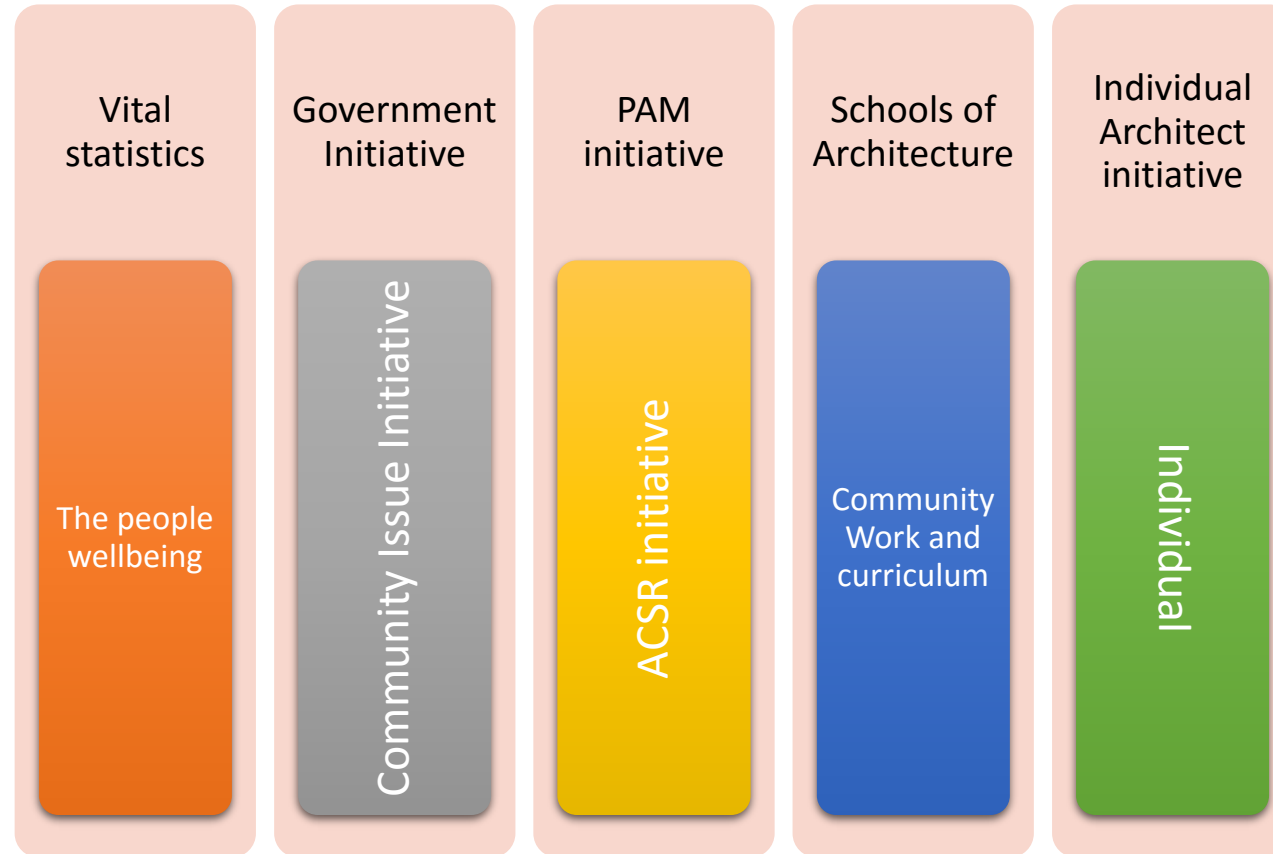
ACSR meeting, ARCSIA  
11<sup>TH</sup> November 2015, Ayutthaya, Thailand

**MALAYSIA**

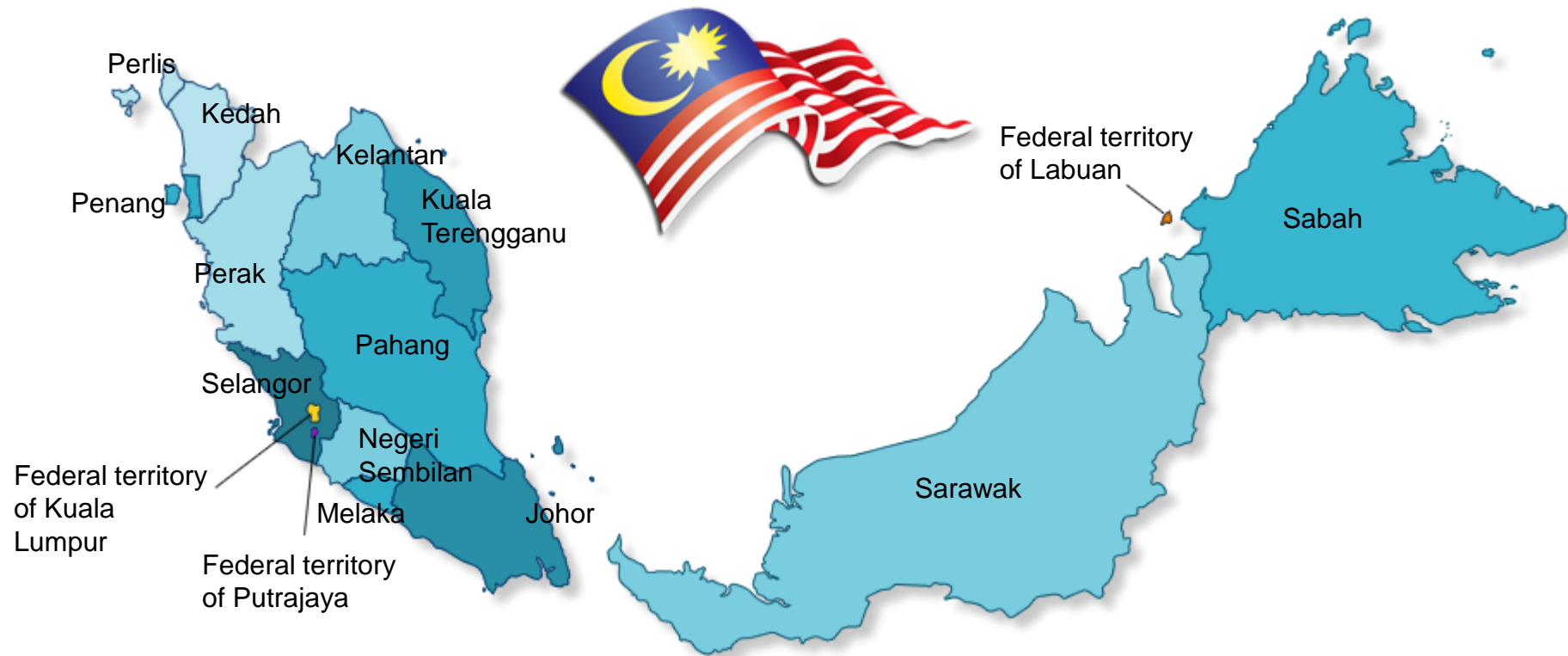
## **Pertubuhan Akitek Malaysia (PAM): ACSR COUNTRY REPORT 2014/2015**

Prepared by  
Assoc. Prof. Ar. Datin Dr. Norwina Mohd Nawawi ACSR with  
Urban Wellbeing, Sustainable Housing and Environmental Resilience (USHER) Committee; PAM  
10<sup>th</sup> November 2015

# outline



# States and territories in Malaysia



Source: Department of Statistics, Malaysia (2015) at

# Vital Statistics

- 31,143,832

[http://www.statistics.gov.my/portal/index.php?option=com\\_content&view=article&id=471&lang=en&Itemid=0](http://www.statistics.gov.my/portal/index.php?option=com_content&view=article&id=471&lang=en&Itemid=0)

- Birth rate 1.3 (2015) remain

- **GDP - per capita (PPP):**

\$17,500 (2013 est.)

\$17,000 (2012 est.)

\$16,400 (2011 est.) (source:

[http://www.indexmundi.com/malaysia/gdp\\_per\\_capita\\_%28ppp%29.html.retrieved 111115\)](http://www.indexmundi.com/malaysia/gdp_per_capita_%28ppp%29.html.retrieved%20111115)

- Unemployment rate 3.2% (2015)

- **30,093,120 (2014)**

[http://www.statistics.gov.my/portal/index.php?option=com\\_content&view=article&id=471&lang=en&Itemid=0](http://www.statistics.gov.my/portal/index.php?option=com_content&view=article&id=471&lang=en&Itemid=0)

- Birth rate 1.3 (2014) remain

- **GDP - per capita (PPP):**

\$17,200 (2012 est.)

\$16,600 (2011 est.)

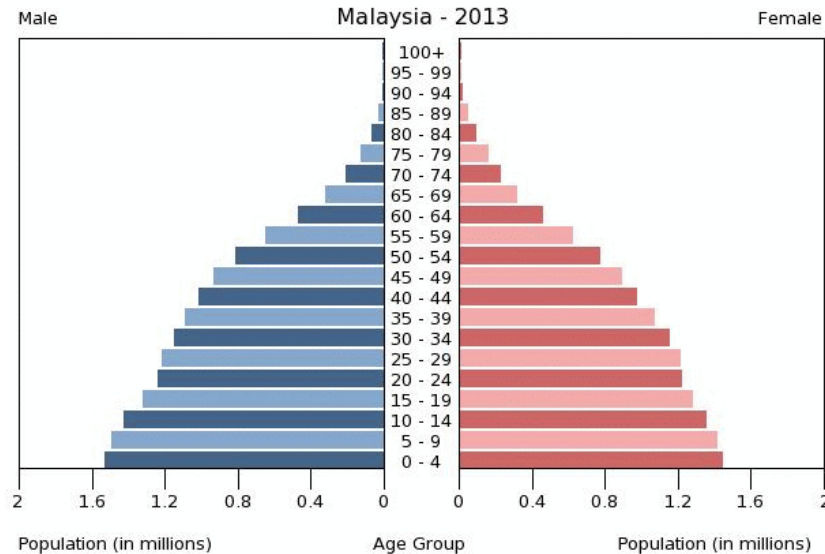
\$16,000 (2010 est.) (source:

[http://www.indexmundi.com/malaysia/gdp\\_per\\_capita\\_%28ppp%29.html.retrieved 140614\)](http://www.indexmundi.com/malaysia/gdp_per_capita_%28ppp%29.html.retrieved%20140614)

- Unemployment Rate 3.1% Average



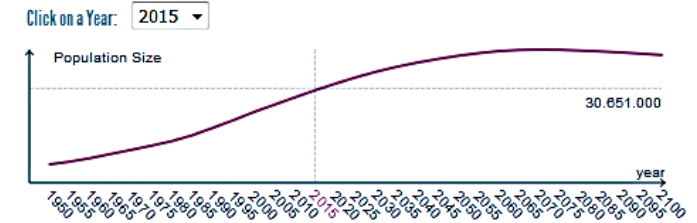
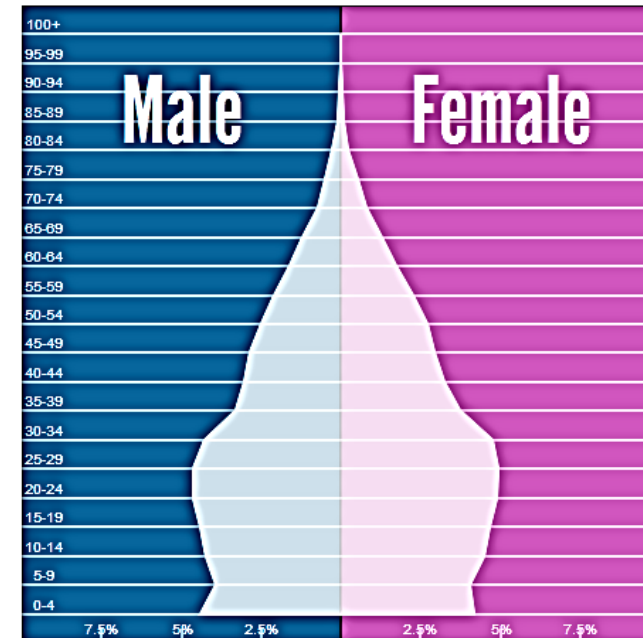
# Age group and gender



[www.indexmundi.com](http://www.indexmundi.com)

## Malaysia 2015

Population: 30.651.000



Click on a Country:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Macao SAR (China)  
Malawi  
Maldives  
Mali  
Malta  
Mauritania  
Mayotte  
Mexico  
Micronesia (Fed. States of)  
Mongolia  
More developed regions  
Mozambique  
Madagascar  
Malaysia  
Mali  
Martinique  
Mauritius  
Melanesia  
Micronesia  
Middle Africa  
Montenegro  
Morocco  
Myanmar

Link to this graph: <http://populationpyramid.net/malaysia/2015/>

Visualization by Martin De Wulf (@madewulf) — All code on [github](https://github.com/madewulf) — Previous version of the site, with data from 2008.

Keywords: demography, population pyramid, age pyramid, aging, retirement — You might also like [migrationsmap.net](http://migrationsmap.net)

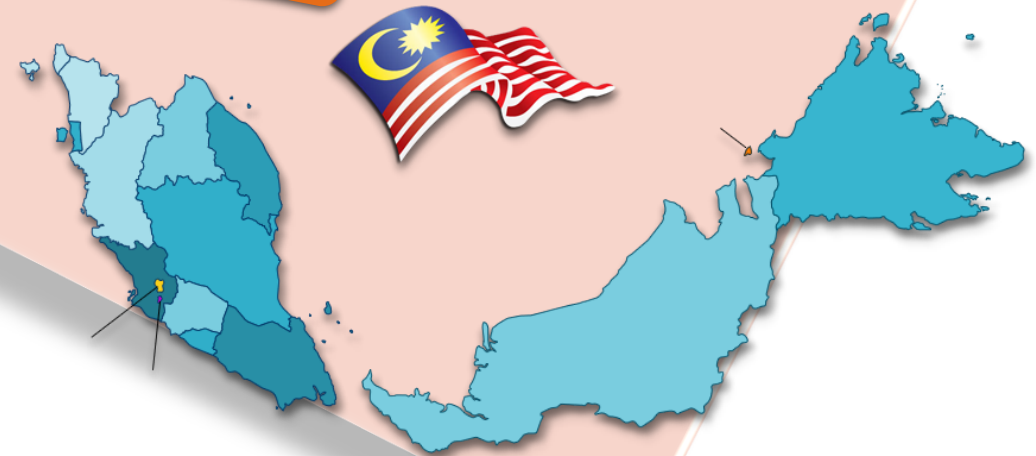
Source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2012 Revision. (Medium variant)

Do not hesitate to report translation errors to [madewulf@multitasked.net](mailto:madewulf@multitasked.net)

Source: <http://populationpyramid.net/malaysia/2015/>

# Government Initiative

Well-being & Community Issue Initiative

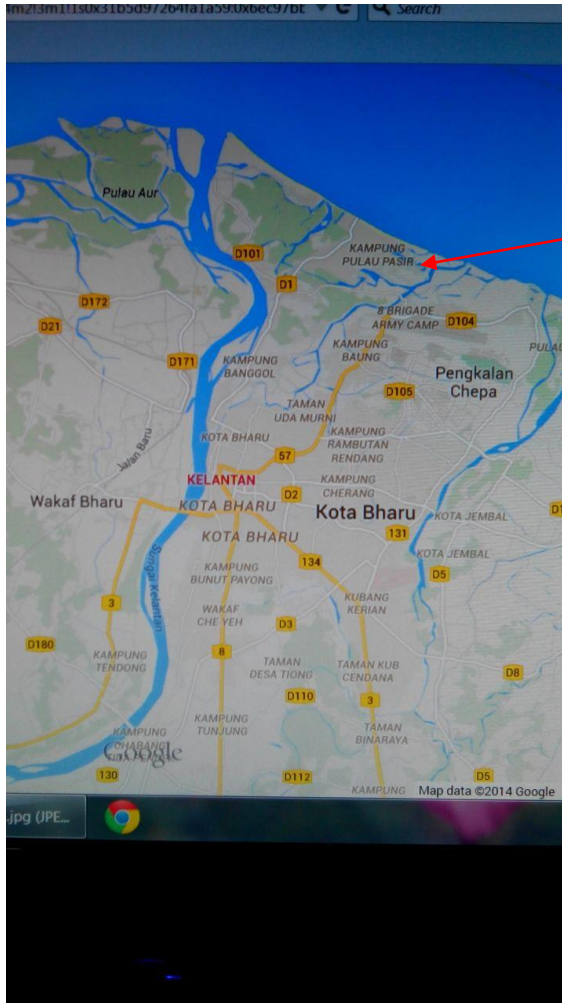


# Wellbeing & Community issues of the Built Environment

## Prevailing Issue

Year	2014	CURRENT
Public Health	Dengue fever	Dengue fever, Typhoid
Lifestyle	Easy lifestyle and facilities leads to obesity and diabetes	Easy lifestyle and facilities leads to obesity and diabetes
Design	Child accident in building due to design negligence – fall	Child accident in building due to design negligence – fall
Crime	Rising	Rising
Social	Homeless	Homeless
Housing	Rising cost of houses	Affordability
Natural disaster	Routine flood	Big Flood, Earthquake

# Flood Disaster Dec 2014



Kelantan State





# The flood –Kelantan State



## Flood Damage To Railway Infrastructure Put At RM250 Million

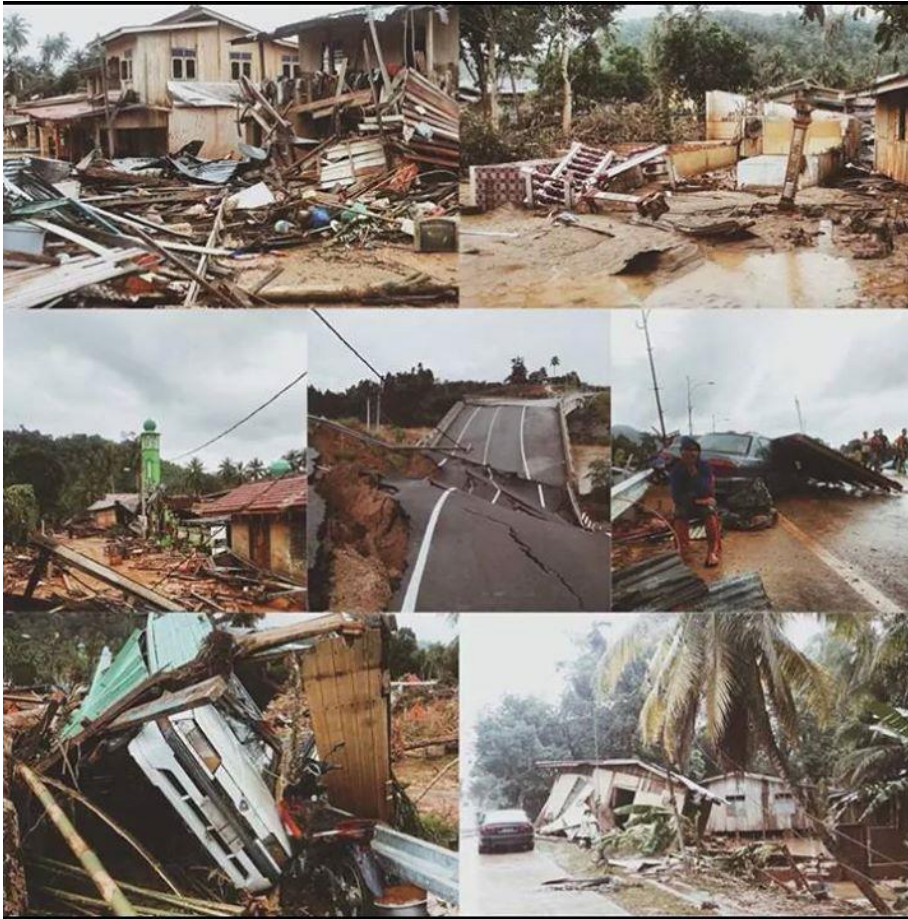
<http://eng.mynewshub.cc/2015/01/06/flood-damage-to-railway-infrastructure-put-at-rm250-mln/>



<http://www.theborneopost.com/2014/12/30/floods-in-manik-urai-leave-buildings-destroyed-villagers-traumatised/>



# The effect



Infrastructure and home



Hospital in Kota Bharu, Kelantan





# The Assistance and re-placement



Food, clothes and medicine



Transit homes



The cleaning of debris

Relocate services

# The Earthquake – Sabah – June 2015





# The effect and the assistance



The Stranded Climbers



The Rescue Mission

# Governments Response to Disaster

Includes.....

- Research Grants for university researchers to seek redress, preparedness from prototypes houses or building, river studies, earthquake and city planning;
- Budget allocation for the replacement of houses; basic needs of the needy; embankment of rivers and the sea;
- Improved the nation's emergency response organization
- Others...

# PAM initiative



Social Responsibility initiative  
through Urban Well being and

## **Flood Relief Fund**

This Flood Relief Fund was initiated by the Committee in collaboration with Malaysian Institute of Interior Designers (MIID), Malaysian Institute of Planners (MIP) and The Malaysian Red Crescent (MRC) to provide assistance and immediate response to help alleviate the suffering the victims of the flood especially in the east coast of Malaysia, Kedah, Perak and other related states.

This campaign was launched on 28 December 2014 and the total amount collected through donations by architecture firms and individual members of the three organisations was RM 85,630.00. The handover ceremony of the Fund was held on 6 March 2015 at the Aloft Hotel, Kuala Lumpur to coincide with MIID Appreciation Night. The donation cheques were presented by the respective Presidents of the three organisations, Ar. Chan Seong Aun (PAM President), Ar. Chris Yap Seng Chye (MIID President) and Tuan Hj Md Nazri Mohd Noordin (MIP President) to the Vice Chairman of MRC, Datuk Dr. Hj. Noordin Ab Razak.

Source: Berita Akitek – March 2015 ( suryati, PAM)



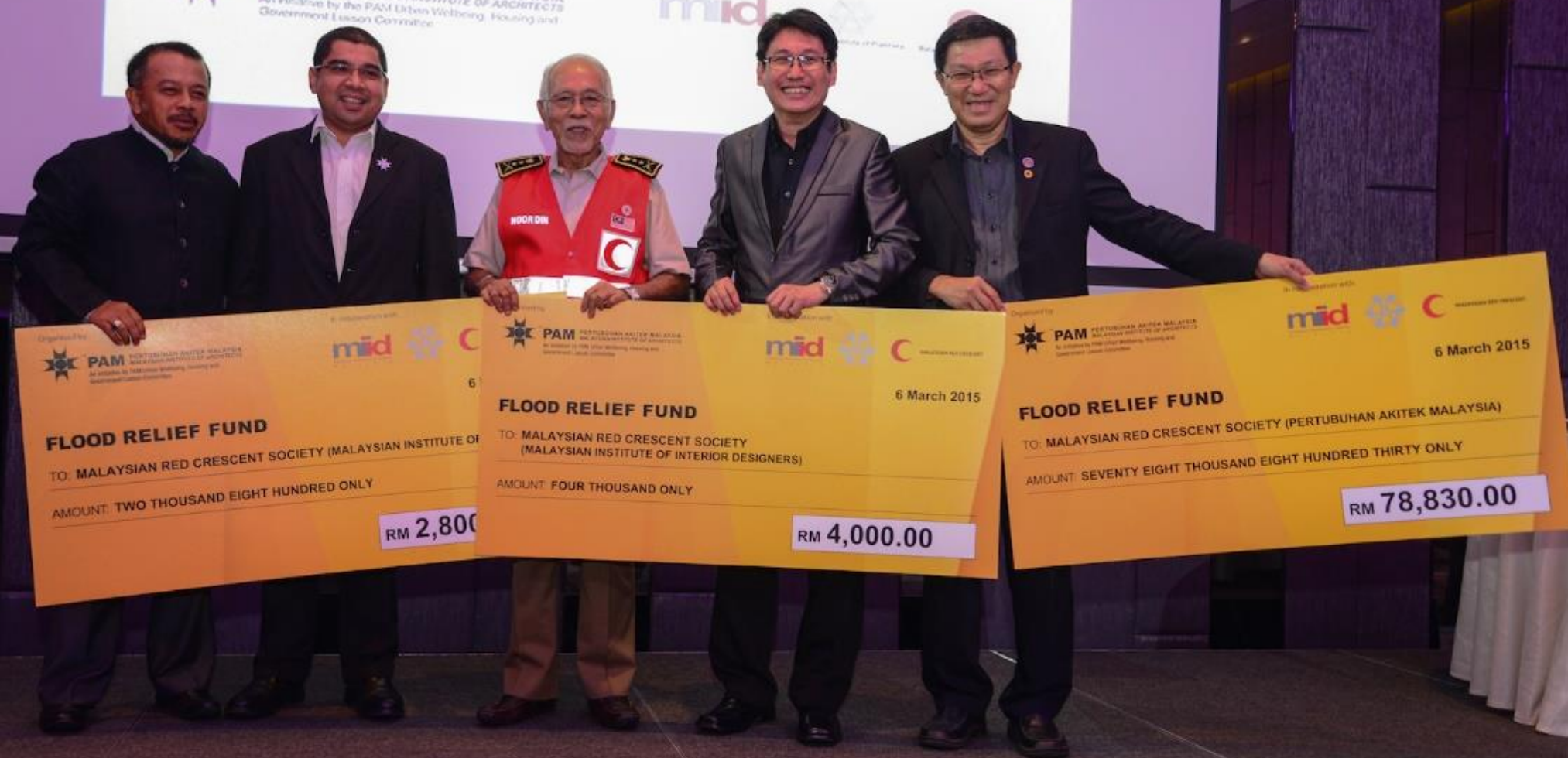
# FLOOD RELIEF FUND

Organised by



**PAM** PERTUBUHAN AKITEK MALAYSIA  
MALAYSIAN INSTITUTE OF ARCHITECTS  
An initiative by the PAM Urban Wellbeing, Housing and  
Government Liaison Committee

In collaboration with



## FLOOD RELIEF FUND

TO: MALAYSIAN RED CRESCENT SOCIETY (MALAYSIAN INSTITUTE OF ARCHITECTS)

AMOUNT: TWO THOUSAND EIGHT HUNDRED ONLY

RM 2,800.00

## FLOOD RELIEF FUND

TO: MALAYSIAN RED CRESCENT SOCIETY (MALAYSIAN INSTITUTE OF INTERIOR DESIGNERS)

AMOUNT: FOUR THOUSAND ONLY

RM 4,000.00

## FLOOD RELIEF FUND

TO: MALAYSIAN RED CRESCENT SOCIETY (PERTUBUHAN AKITEK MALAYSIA)

AMOUNT: SEVENTY EIGHT THOUSAND EIGHT HUNDRED THIRTY ONLY

RM 78,830.00

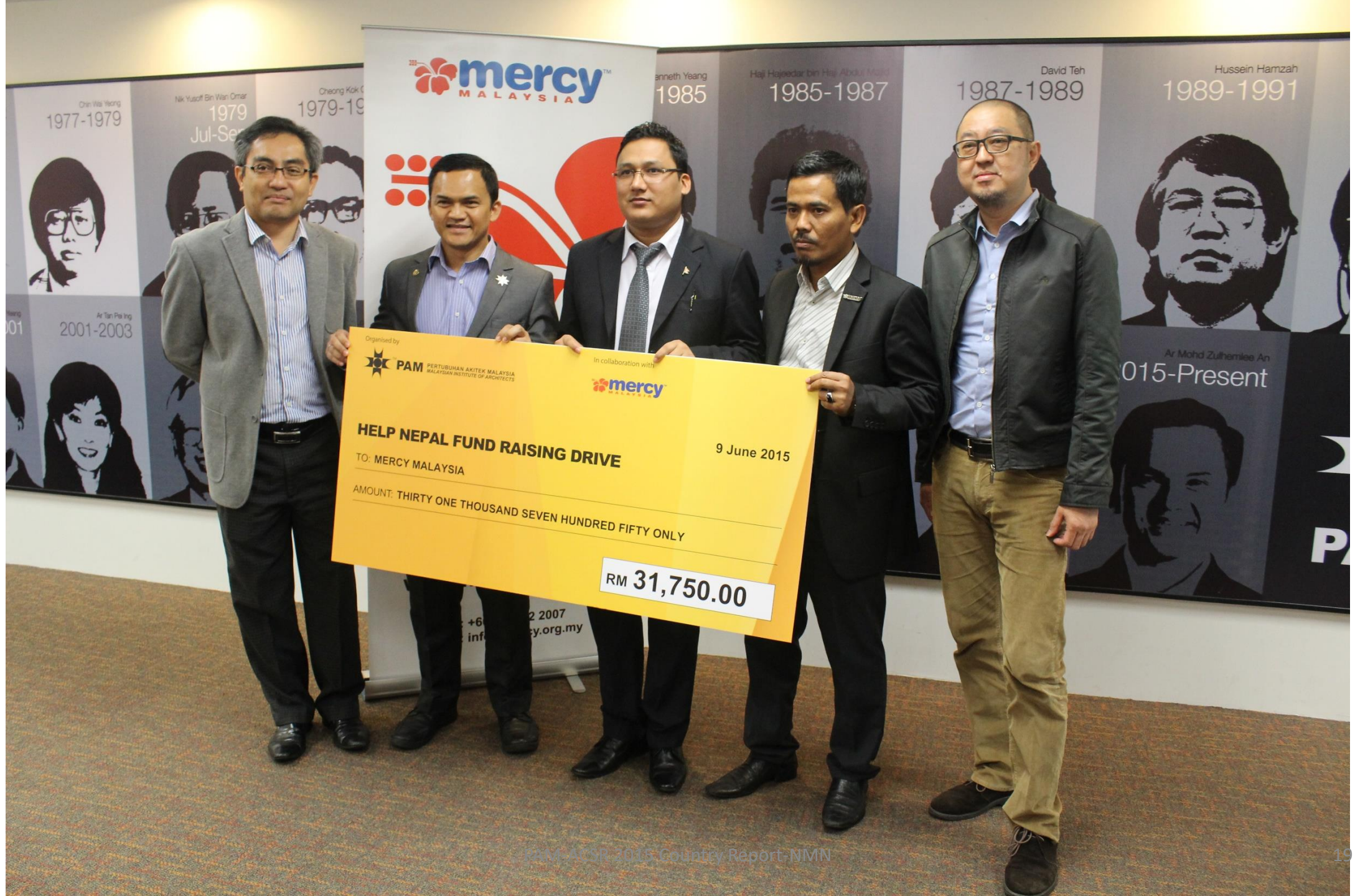
6 March 2015

# HELP NEPAL FUND RAISING DRIVE

- Malaysian Institute of Architects (PAM) in collaboration with MERCY Malaysia had organised the Help Nepal Fund Raising Drive which was launched on 28 April 2015. All contribution has been channelled to victims of earthquake Nepal through MERCY Malaysia.
- The Second Secretary of the Embassy of Nepal, Mr. Uttam Kumar Shahi attended the ceremony and witnessed the official Handing Over Ceremony and Mock Cheque Presentation to MERCY Malaysia which was held at PAM Centre on 9 June 2015. The total amount collected is RM 31,750.
- PAM wishes to thank all donors on their noble contribution towards the victims of earthquake Nepal.

Source: Berita Akitek – June 2015 ( suryati, PAM)





# Care for the Homeless project

## **PAM-DBKL Architectural Ideas Competition 2014 In Designing Temporary Shelters for the KL Homeless**

This Competition is initiated by the Pertubuhan Akitek Malaysia (PAM) Committee for Urban Wellbeing Housing and Government Liaison and the Dewan Bandaraya Kuala Lumpur (DBKL). It is an Open Ideas Competition to all PAM members and other relevant profession. The objective of this ideas competition is to promote the Malaysian architect fraternity ability in designing for social needs and dispel the general public notion that architects only serve the elites.

The Competition was launched on 10 December 2014 at the PAM Housing Forum 2.0 and Professional Practice Forum 5.0, by Yang Berbahagia Datuk Seri Haji Ahmad Phesal bin Haji Talib, Mayor of Kuala Lumpur. It was successfully participated with registrations received of 141 registrations in total for all categories, and submissions received with total of 97 submissions for all categories.

Source: Berita Akitek – 2015 ( suryati, PAM)





















## Winners' Announcement and Awards Ceremony

PAM-DBKL Architectural Ideas Competition 2014  
in Designing Temporary Shelter for the KL Homeless  
KUALA LUMPUR LIBRARY, 12 FEBRUARY 2015

PAM-DBKL ARCHITECTURAL  
COMPETITION 2014  
IN DESIGNING  
TEMPORARY SHELTERS  
FOR THE KL HOMELESS

PAM-DBKL ARCHITECTURAL IDEAS COMPETITION 2014  
IN DESIGNING TEMPORARY SHELTERS FOR THE KL HOMELESS  
12 FEBRUARY 2015  
TO: ANWAR BIN SALLEH  
AMOUNT: FIVE THOUSAND ONLY  
RM 5,000.00  
PAM CORPORATE MEMBERS

PAM-DBKL ARCHITECTURAL IDEAS COMPETITION 2014  
IN DESIGNING TEMPORARY SHELTERS FOR THE KL HOMELESS  
12 FEBRUARY 2015  
TO: MUSTAPHA BIN MOHAMED SALLEH  
AMOUNT: THIRTEEN THOUSAND ONLY  
RM 13,000.00  
PAM CORPORATE MEMBERS

PAM-DBKL ARCHITECTURAL IDEAS COMPETITION 2014  
IN DESIGNING TEMPORARY SHELTERS FOR THE KL HOMELESS  
12 FEBRUARY 2015  
TO: AZHAR BIN ZAINAL ABIDIN  
AMOUNT: NINE THOUSAND ONLY  
RM 9,000.00  
PAM CORPORATE MEMBERS



**PARTICIPANT** : Ar. Assoc. Prof. Mustapha bin Mohamed Salleh  
**TITLE** : KL STEP INN - Temporary Lodging for the Urban Homeless

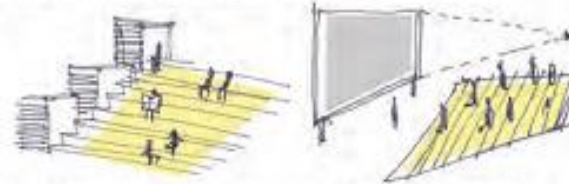
## DESCRIPTION

Using the approach used by the homeless who adopt steps and benches as a platform for them to rest, this shelter expands the idea into a shared communal space elevated from the streets for live, play and rest. These steps are designed to be open and welcoming in providing the needed respite for the homeless on their road to self-recovery. The overall shelter design is based on the principle of 'transient living' where it combines the flexibility of construction scaffolding and flat pack panels with the mobility of street furniture. Made from renewable and recyclable materials; and able to generate its own energy and water, KL Step Inn will allow the homeless to lightly tread the everyday rigours of urban life.



## DEVELOPMENT OF IDEA

Steps and elevated planes are commonly used as platform for the homeless to rest. Steps are amplified as vertical movement, a subtle shift from current state of condition.



Steps become space for gathering and engaging with others.



Living pods for resting and privacy help contain the common space and shape the main circulatory spine. External pockets of space become opportunity for makeshift uses.

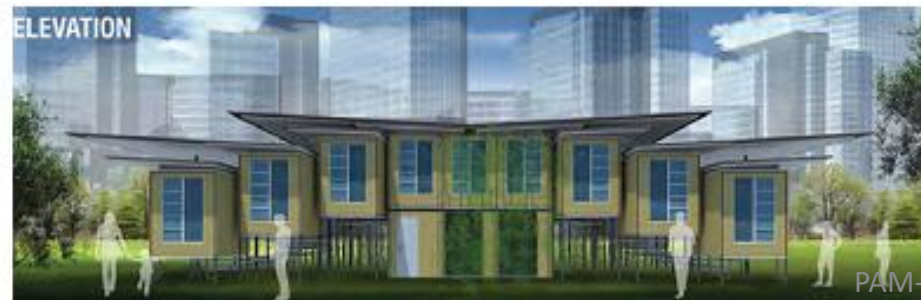
## FLOOR PLAN



GROUND LEVEL



1ST LEVEL





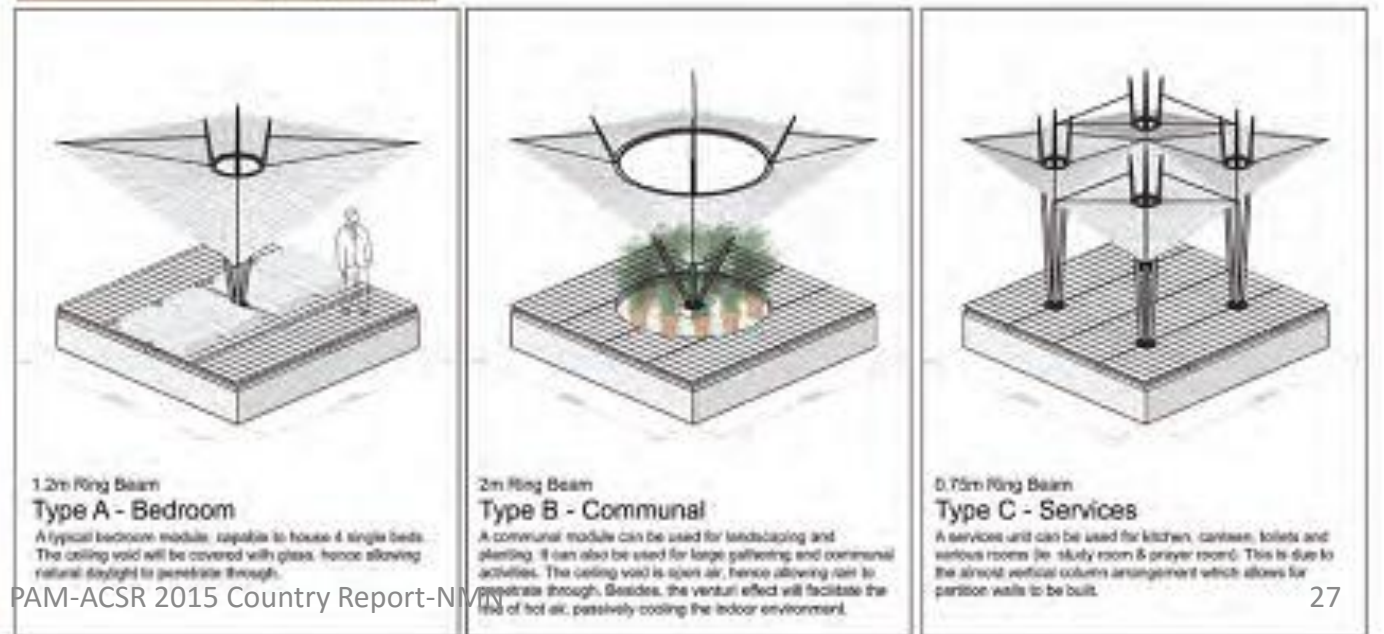
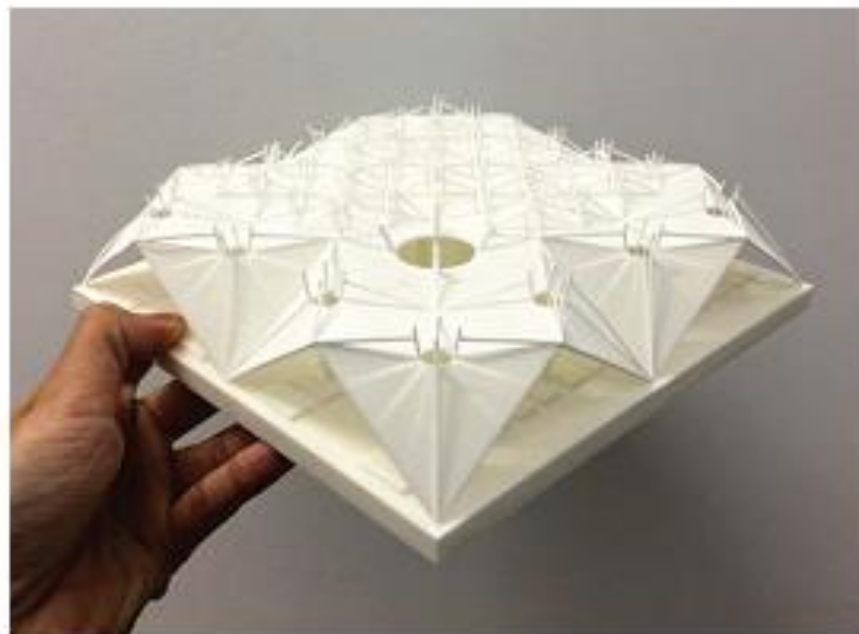
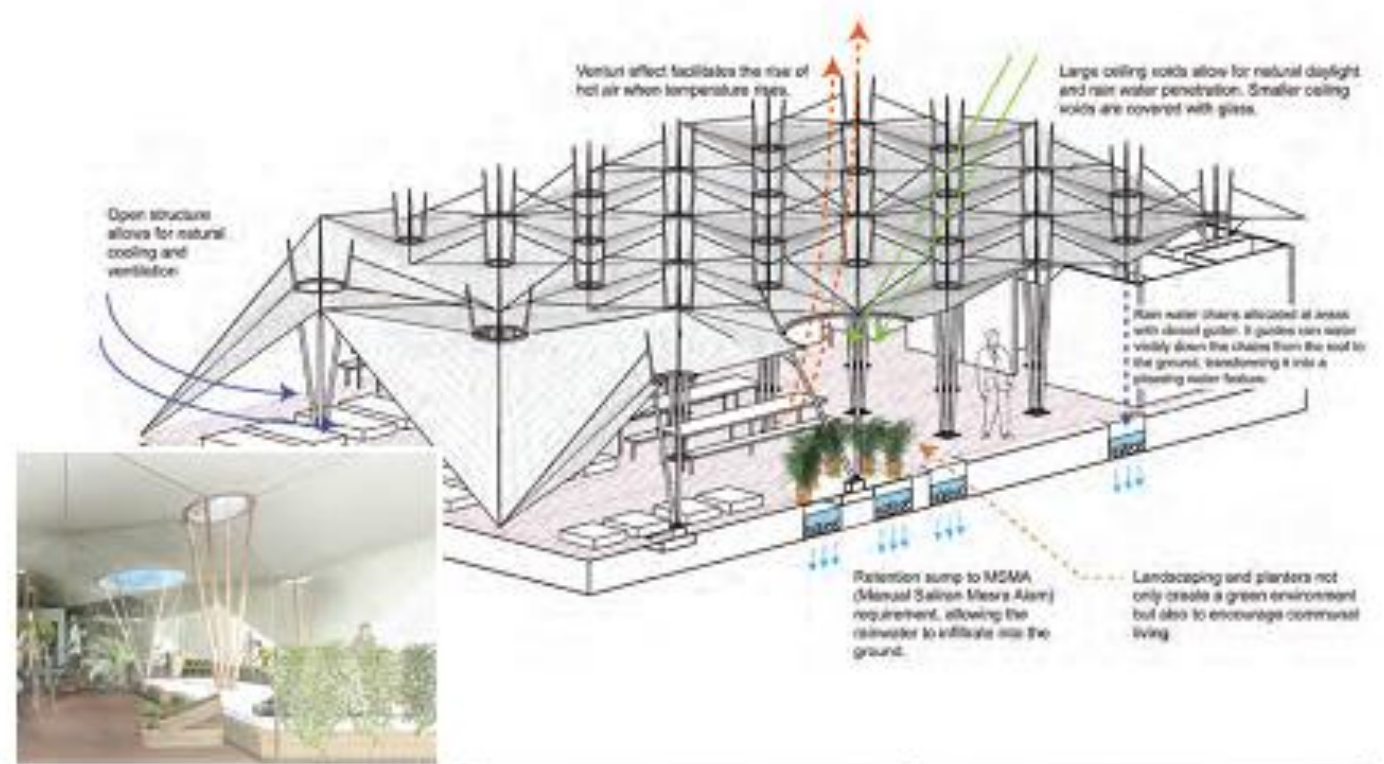
**PARTICIPANT :** Chua Yheu-Shen

**TITLE :** Camp KL

### DESCRIPTION

Camp KL addresses the urban issue of homeless habitants in the city. Instead of gathering the homeless in a house which lacks a sense of belonging, this project proposes an alternative solution, to design a space with the theme 'communal'. There are 3 aspects to this, namely: 'Communal Building', 'Communal Planting' and 'Communal Interaction'.

Derived from a modular system, there are 3 types of spaces a shelter serves - 'bedroom', 'communal' & 'services'. The proposed modular of 5m x 5m structure once combined, forms a light weight global system which is fast to assemble and easy to deconstruct. The tension membrane roof forming the shelter is not only generic to accommodate various activities but also specific enough to function as a living space. Its flexible typology allows freedom in arranging the modules, enabling it to expand or to reduce its overall area.





**PARTICIPANT :** Michelle Chin Shi Jeat

**TITLE :** The 'Epiphyte'

### DESCRIPTION

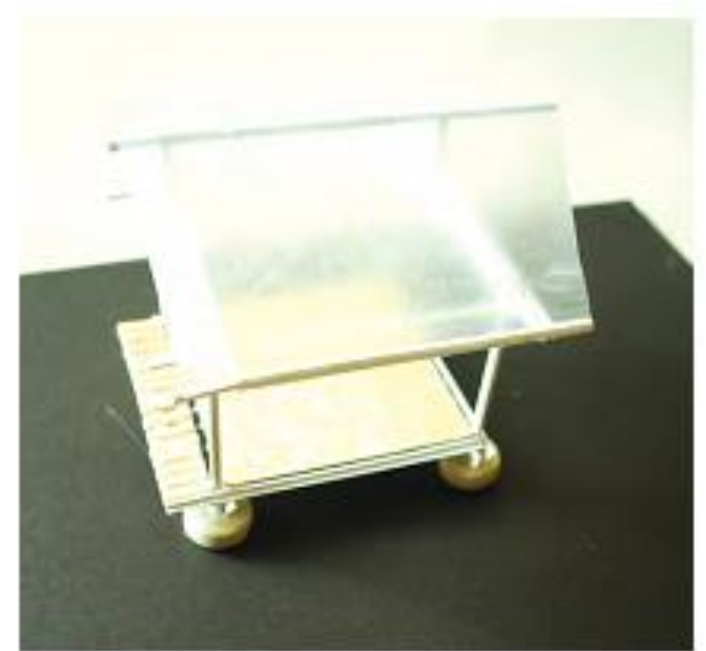
Using the concept "Epiphyte", the design intends to create opportunities for meaningful partial self-sustainable activities for the homeless communities through architecture, while fulfilling design requirements with voluntary simplicity thru the following approach:

Recycled art-inspired architecture ensures shelter aesthetic integrity while offer low cost, low tech and easy to maintain solution where flooring, roofing, partitioning and furniture are from reusable and recyclable materials which occupants can source and replace easily building maintenance.

Modular and lightweight structural members with simplistic construction detailing allow various building layout and easy assembly by people with semi-professional construction skills. (volunteers, occupants themselves )

Low tech vertical bottle farm offers meaningful engagement of daily activity by homeless community on their own food production that can be supplied to soup kitchens as means to reduce their operating costs, or sell to surrounding communities.

The shelter is able to cater a total of 24 occupants at one time.



# PAM Palestine Humanitarian Relief Fund

- The PAM Palestine Humanitarian Relief Fund was launched on 16 July 2014 at the Majlis Berbuka Puasa Bersama Rakan-Rakan Industri Senibina at Kuala Lumpur Convention Centre. This campaign was a joint effort between PAM through its Urban Wellbeing, Housing and Government Liaison Committee, with Aqsa Syarif Berhad, MERCY Malaysia and the Malaysian Red Crescent to provide financial assistance and immediate response to the humanitarian crisis in Gaza. This fund raising exercise was held for one month until 15 August 2014.
- 
- The handing over ceremony to the three organisations, Aqsa Syarif Berhad, MERCY Malaysia and Malaysian Red Crescent was held at PAM Centre, Kuala Lumpur on Friday 22 August 2014. A total of contribution of RM 63,745 was collected through donations by architecture firms and individual PAM Member. The donation cheques were presented by the PAM Deputy President, Ar. Mohd Zulhemlee An to Tuan Haji Kamarul Zaman Shaharul Anwar, General Manager of Aqsa Syarif Berhad; Ar. Mohamad Ayof Bajuri, Executive Member of Mercy Malaysia and Datuk Dr. Haji Noordin Ab Razak, Secretary General of Malaysian Red Crescent Society.

Source: Berita Akitek – 2015 ( suryati, PAM)



# PAM Palestine Humanitarian Relief Fund





Universal Design And Accessibility  
In The Built Environment Towards  
A People Centred Petaling Jaya

## “Universal Design and Accessibility in the Built Environment Towards A People Centred Petaling Jaya”

- The “Universal Design and Accessibility in the Built Environment Towards A People Centred Petaling Jaya” seminar and workshop was successfully organised on 3 – 4 June 2015 at the Hotel Armada Petaling Jaya and drew participation of approximately 300 attendees. It was a joint effort programme by MBPJ, MIP and PAM.
- The first of the two-day event was the paper presentations by speakers from Singapore and Malaysia. The speakers are as follows:
  - Ms. Goh Siam Imm, Singapore Building Construction Authority
  - Professor Dato’ Sri Ar. Dr. Asiah Abdul Rahim, International Islamic University Malaysia
  - Tuan Haji Ihsan Zainal Mokhtar, Malaysian Institute of Planners (MIP)
  - Ar. Mustapha Kamal Zulkarnain, Pertubuhan Akitek Malaysia (PAM)

Source: Berita Akitek – 2015 ( suryati, PAM)

# “Universal Design and Accessibility in the Built Environment Towards A People Centred Petaling Jaya”

- The seminar and workshop explored challenges and raised the levels of awareness and sensitivity to the rights and needs of people with disabilities among stakeholders in the built environment and its surroundings. It was MBPJ’s aspirations that the seminar would also promoted transfer of knowledge in the application of universal design in the built environment and most importantly helped accelerate the implementation of the Universal Design Guidelines in Petaling Jaya
- The workshop also explored the priority of the implementation of the Universal Design Guidelines from just merely as submission compliant item as part of the CCC but to be more of an implementation compliant during construction of the said design. It was intended to simplify and to ensure compliance by the developer, contractor as well as the principal submitting person.
- 

Source: Berita Akitek – 2015 ( suryati, PAM)





Organized By:

# Seminar dan Bengkel Universal Design And Accessibility In The Built Environment Towards A PEOPLE CENTRED

Peningkatan Kualitas Lingkungan Hidup













# Schools of Architecture

Examples of work done

Community Work and curriculum

# IIUM –International Islamic University Malaysia

DEPARTMENT OF ARCHITECTURE  
KULLIYAH OF ARCHITECTURE AND ENVIRONMENTAL DESIGN  
International Islamic University Malaysia

## AAR 3201 ARCHITECTURAL DESIGN 6

TOWARDS A RESPONSIBLE URBAN ARCHITECTURE: A COMMUNITY INTEGRATED TRANSPORT HUB  
CONNECTING PEOPLE AND PLACES: TRANSFORM AS AUTONOMOUS RELIEF SHELTER IN FLOOD  
SEASON



Figure 1: responsible architecture (Source: Internet)



# UKM& USIM – University Kebangsaan Malaysia (UKM) & Universiti Sains Islam Malaysia

## **Project Shelter**

In 2014 disastrous floods surged across the Kelantan, Terengganu, Perak and Perak river basins, taking lives and property. It cost nearly millions of dollars of property and many lives. The floods washed away 1,827 homes in Kelantan which effected about 31,441 flood victims, and left a trail of destruction and despair that folks here are still struggling to come to terms with till end year 2015. The worst hit are also the most vulnerable – the poor who live in wooden houses that collapsed like cardboard and who are least able to recoup their losses. This flood disaster witnessed the suffering of homeless people, living in a temporary rant. Those create a desprate need for the government to provide a new houses for the flood victims.

Therefore, a Project Shelter was introduce, a project to provide affordable house for the flood victims in Kelantan. A team of lecturers who also an Architect in USIM and assisted by lecturer in UKM, came up with a design solution to the flood victim within 4 weeks at low construction cost. It also involve 8 student from Architecture program at Faculty Science and Technology, USIM – from year 1 until years 3. This project is joined venture with Tesco Store (Malaysia) where 100% sponsor by them where 8 houses were build. The project start at February 2015, duration of design process was 3 weeks and the construction of each house took approximately 8 weeks. 3 location of the houses were built, namely, Kg Berlian, Kg Laut, Kg Sg Pinang , Kelantan

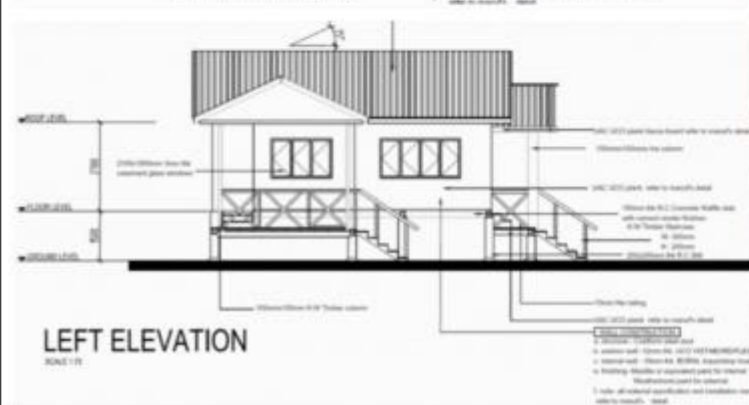
Shariah compliance, Modular System, panelized, waffle slab and affordable house concept is the theme put forward in this Project Shelter. With this combined concepts, all structure and technical components involved are easy to transport, assemble and dissemble in other location. By adapting modular construction, it allows environmental friendly construction as the panelized structure can be locally fabricated using renewable materials, less wastage and cost effective. This panelized structure is able to be designed according to requirement of certain location and fulfill the needs of the user. Our proposed design will be based on a built up area of approximately 740sqf. This house will be constructed consist of living, 3 bedrooms, dining area, 2 bathroom and toilet and also a kitchen. The cost of the house is RM65,000.00 inclusive basic furniture and take about 5 weeks to construct it.

The house condition after disaster





## Proposal



## During construction



## After construction




USIM student and lecturers; Ar Fadli (left) from USIM as leader project show the model to Tesco team.



Source : Nor Haslina Ja'afat (PhD)  
Department of Architecture,  
FKAB, UKM. 30<sup>th</sup> October 2015



# UCSI - UCSI University Malaysia


No	Name/title of activity with date, duration, location, number of staff and students participation (attached brief/project paper/write up in available).	Collaboration with ( state entity if any)	Community Work/design studio/ other (state mode )	Objective	Outcome	Evidence ( attached selected photographs of activities, process and outcome/product (whichever relevant)	Remarks ( for others to learn from as part of sharing)
1	Kuala Sepetang Kaktao46 Community Space. Phase 1: Jan-May 2015 (One semester) Phase 2: 18 <sup>th</sup> July-11 <sup>th</sup> August 2015	Dept. of Architecture, Chung Yuan Christian University, Taiwan	Design and Build, with community members.	To encourage a closer engagement between students and the community(user), so that they could have better	The community space- 'Kaktao46' consists of three existing buildings with several functions such		This project has been divided into two phases which were carried out in two consecutive semesters. During the first semester Jan-May


Name of Head of Department: Asst. Prof. Ar Chia Lin Lin

Name of Institution representative/report writer (for acknowledgement): Asst. Prof. Teoh Chee Keong

Signature/ Date:  31/10/2015



	<p>(Three weeks) 4 Lecturers, 60 students from UCSI University and CYCU University.</p>			<p>insight and thoughts of an architecture project and would be able to produce works that fit the community's need.</p>	<p>as a children library, a classroom, an in-house garden, a living space and one accommodation for 20 people. Upon completion, Kaktao46 would become a communal place for the community to carry out activities such as English class, public talk, exhibition and to organize meeting that could foster the community engagement.</p>		<p>2015, the project incorporated a range of teaching and learning strategies including project site investigation, interview, public presentations, in order to generate a working plan for actual construction work.</p> <p>In the second semester, Jul-Nov 2015, 60 students from UCSI and CYCU spent three weeks in Kuala Sepetang to carry out construction works.</p>
--	---	--	--	--	---	--	---

2	Bukit Mertajam Yulan Culture Space, Jul-Nov 2015, 5 months. 2 lecturers, 22 students.	Bukit Mertajam Yulan Festival Association	Design Studio project	The project is seen as an opportunity for the Bukit Mertajam YuLan Association to achieve strategic objectives	A total of 22 schematic design proposals have been produced by the students and six selected works will be	
				relating to promote culture and history awareness of the place. It is also a studio project that emphasizes place-based learning to enhance students' real-life design experience.	presented to the association's representatives at the end of Nov 2015.	

# Individual Architect initiative

Individual with NGO



# At work

## Office

- Design work
- Planning work

## University

- Social Responsibility Design incorporated in all design projects
- Community work

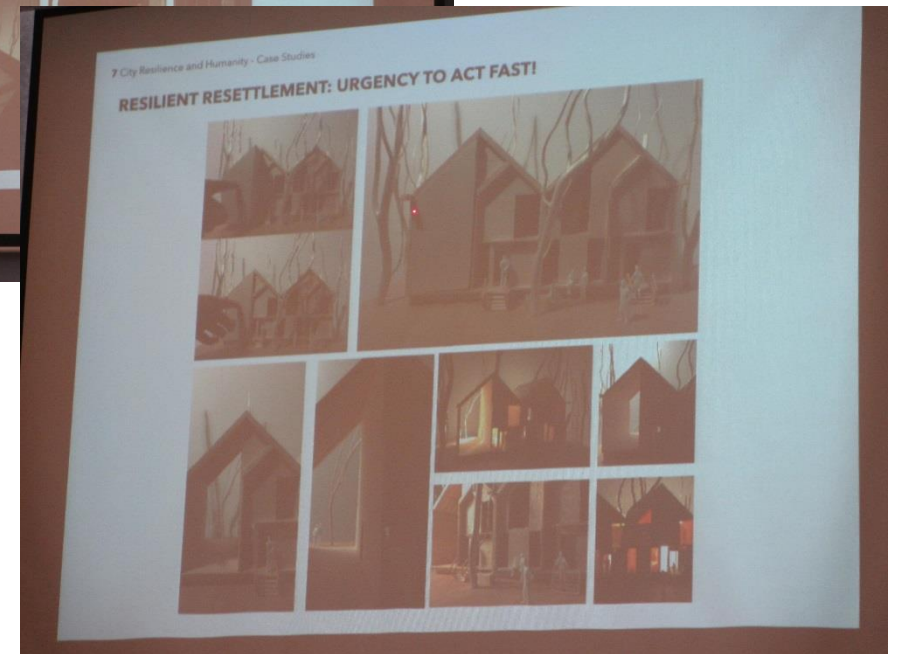
# Individual effort through collaboration & research



**Speaker:** Hafiz Amirrol, Urban Designer at Extraurban Design  
**Lecture Title:** City Resilience : Repositioning Kuala Lumpur As Resilient Cities  
**Date:** 28 October 2015



+ Mercy Malaysia





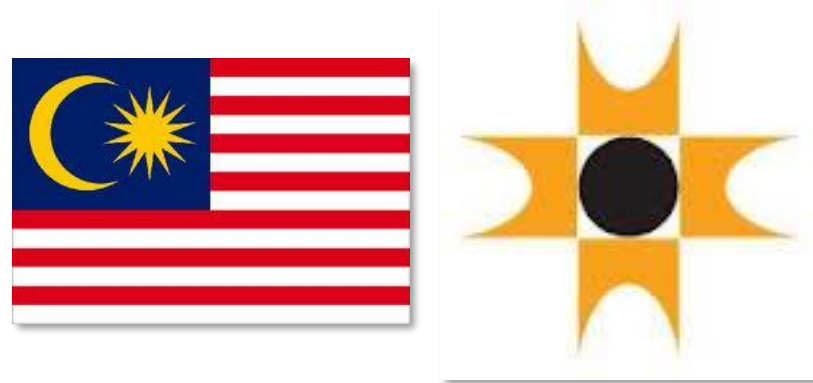
# At home and Community

## **Family**

- Encourage family members empathy
- Be a lifestyle example

## **Community**

- Involve in PIBG- schools
- Activist /volunteer



Thank YOU.  
TERIMA KASIH